LEEONG
CORPORATION

# Global Steel Pipe

Supply high-quality steel pipe materials.

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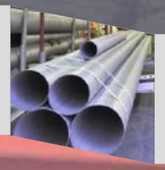
Global Steel Pipe

# Benefits of Stainless Steel



Stainless steel is available in many surface finishes. It is easily and simply maintained resulting in a high quality, pleasing pearance..

**Hygienic properties**

Stainless steel is available in many surface finishes. It is easily and simply maintained resulting in a high quality, pleasing pearance..

**Aesthetic appeal**

Stainless steel is a durable, low maintenance material and is often the least expensive choice in a life cycle cost comparison.

**Life cycle characteristics**

The cold work hardening properties of many stainless steels can be used in design to reduce material thicknesses and reduce weight and costs. Other stainless steels may be heat treated to make very high strength components.

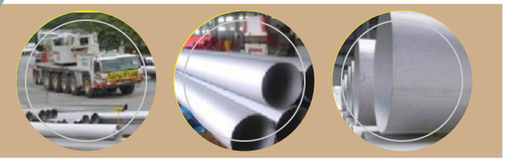
**Strength**

Some grades will resist scaling and maintain high strength at very high temperatures, while others showexceptional toughness at cryogenic temperatures.

**High and low temperature resistance**

All stainless steels have a high resistance to corrosion.Low alloyed grades resist corrosion in atmospheric conditions; highly alloyed grades can resist corrosion in most acids, alkaline solutions, and chloridebearing environments, even at elevated temperatures and pressures.

**Corrosion resistance**




# Stainless Steel Coil

**Specification: ASTM A240/A240M, A480/A480M, JIS G4304/G4305, EN 10028-7/ 10088-2**




| Product Type | Finish | Grade | Thicknes(mm) | Widthe(mm) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Main Size | | | | | | | | Other Size | Application |
| | | | | 750 | 914 | 1000 | 1219 | 1250 | 1500 | 1524 | 2000 | | |
| Coil | No.1 | 304/L,316 L | 2.0 ≦ t<5.0 | ◎ | | ◎ | ◎ | ◎ | ◎ | ◎ | | Upon Request | Petro-chemical industry, Tanks. |
| | | | 5.5.0 ≦ t ≦ 10 | ◎ | | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | | |
| | | | 10.0<t ≦ 12.7 | | | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | | |
| | | 430 | 2.0 ≦ t ≦ 6.0 | | | ◎ | ◎ | ◎ | ◎ | ◎ | | | |
| | | 409,439 | 3.0 ≦ t ≦ 6.0 | | | ◎ | ◎ | ◎ | ◎ | ◎ | | | |
| | 2B | 304L | 3.5 ≦ t ≦ 5.0 | | | ◎ | ◎ | ◎ | ◎ | ◎ | | | |
| | | 316L | 3.5 ≦ t ≦ 4.0 | | | ◎ | ◎ | ◎ | ◎ | ◎ | | | |
| | | 304/L, 316L | 4.76 ≦ t ≦ 6.0 | | | | | | ◎ | ◎ | | | |
| | 2B NO.4 NO.5 HL SB | 304L | 0.4 ≦ t ≦ 3.0 | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | | Strip: 25mm Above | Medical equipment, Food industry, Construction material, Kitchen utensils, BBQ grill. |
| | | 316L, 430 | 0.5 ≦ t ≦ 3.0 | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | | | |
| | | 409 | 0.5 ≦ t ≦ 3.0 | | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | | | |
| | | 439 | 0.4 ≦ t ≦ 1.5 | | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | | | |
| | | | 1.5<t ≦ 2.5 | | | ◎ | ◎ | ◎ | ◎ | | | | |
| | BA | 304/L, 316L 430 | 0.4≦t≦2.0 | | | ◎ | ◎ | ◎ | ◎ | | | | |
| Remark | | | | Feature<br>1.Oil base wet polished<br>3.PE Coating normal/ laser film<br>Optional for Front/ Back side<br>CR Coil: 1.0~10.0mts<br>HR Coil:<br>(1)Thickness 3.0~6.0 mm: 2~10 mts<br>(3)Thickness 12.0~12.7 mm: 10~20mts Plate: 2~4mts | | | | | | | | | 2.Both-sides polished available<br>4.Line-marking<br>5.Package weight<br><br>(2)Thickness 7.0~10.0 mm: 5~20 mts<br>Sheet: 1.25~2.2mts |

## No.1

**A rough, dull surface, which results from hot rolling to the specified thickness, followed by annealing and descaling.**

## 2D

**A dull finish which results from cold rolling followed by annealing and descaling, and may perhaps get a final light roll pass through unpolished rolls. A 2D finish is used where appearance is not a concern.**

## 2B

**A bright, cold-rolled finish resulting in the same manner as 2D finish, except that the annealed and descaled sheet received a final light roll pass through polished rolls. This is the general - purpose cold-rolled finish that can be used as is, or a preliminary step to polishing.**

## BA

**(Bright Anneal) The bright annealed mill surface is obtained by annealing the material under an atmosphere, so that scale is not produced on the surface.**

## Brushed Finish

**(No.3/No.4/No.5/No.6) This is a ground unidirectional finish obtained with 150/180/240/320 grit abrasive, which is characterized by parallel brushing lines, it is also known as Satin.**

## Scotch Brite

**It's a semi-dull finish with uniform grain, which is obtained using finer abrasives than No.4**

# Stainless Steel Sheet/Plate

## Specification:

**ASTM A240/A240M, A480/A480M, JIS G4304/G4305, EN 10028-7/10088-2**




| Product Type | Finish | Grade | Thicknes(mm) | Widthe(mm) | | | | | | | | Other Size | Application |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Main Size | | | | | | | | | |
| | | | | 75 | 914 | 1000 | 1219 | 1250 | 1500 | 1524 | 2000 | | |
| Sheet/ Plate | No.1 | 304/L,316L | 2.0 ≦ t<5.0 | | | ◎ | ◎ | ◎ | ◎ | ◎ | | Upon Request | Petro-chemical industry, Tanks. |
| | | | 5.0 ≦ t ≦ 12.7 | | | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | | |
| | | | 12.7 <t ≦ 30.0 | | | ◎ | ◎ | | ◎ | ◎ | | | |
| | | | t > 30.0 | Upon Request | | | | | | | | | |
| | | 430 | 2.0 ≦ t ≦ 6.0 | | | ◎ | ◎ | ◎ | ◎ | ◎ | | | |
| | | 409,439 | 3.0≦ t ≦ 6.0 | | | ◎ | ◎ | ◎ | ◎ | ◎ | | | |
| | 2B | 304L | 3.5 ≦ t ≦ 5.0 | | | ◎ | ◎ | ◎ | ◎ | ◎ | | | |
| | | 316L | 3.5 ≦ t ≦ 4.0 | | | ◎ | ◎ | ◎ | ◎ | ◎ | | | |
| | | 304/L, 316L | 4.76 ≦ t ≦ 6.0 | | | | | | ◎ | ◎ | | | |
| | 2B NO.4 NO.5 HL SB | 304L | 0.4 ≦ t ≦ 3.0 | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | | (1)Size Range：71~15243 mm (2)71~800 mm Max. Thickness：2.0mm | Medical equipment, Food industry, Construction material, Kitchen utensils, BBQ grill. |
| | | 316L, 430 | 0.5 ≦ t ≦ 3.0 | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | | | |
| | | 409 | 0.5 ≦ t ≦ 3.0 | | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | | | |
| | | 439 | 0.4 ≦ t ≦ 1.5 | | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | | | |
| | | | 1.5 <t ≦ 2.5 | | ◎ | ◎ | ◎ | ◎ | | | | | |
| | BA | 304/L, 316L 430 | 0.4≦t≦2.0 | | ◎ | ◎ | ◎ | ◎ | | | | | |
| | NO.8 | 304/L,316L | 0.6 ≦t≦2.0 | | | | ◎ | ◎ | | | | | Construction material |
| Remark | | | | Feature<br>1.Oil base wet polished<br>2.Both-sides polished available<br>3.PE Coating normal/ laser film<br>4.Line-marking<br>Optional for Front/ Back side<br>5.Package weight<br>Sheet：1.25~2.2mts<br>Plate：2.0~4.0mts | | | | | | | | | |

### No.1

A rough, dull surface, which results from hot rolling to the specified thickness, followed by annealing and descaling.

### 2D

A dull finish which results from cold rolling followed by annealing and descaling, and may perhaps get a final light roll pass through unpolished rolls. A 2D finish is used where appearance is not a concern.

### 2B

(Mill Finish) A bright, cold-rolled finish resulting in the same manner as 2D finish, except that the annealed and descaled sheet received a final light roll pass through polished rolls. This is the general-purpose cold-rolled finish that can be used as is, or a preliminary step to polishing.

### BA

(Bright Anneal) The bright annealed mill surface is obtained by annealing the material under an atmosphere, so that scale is not produced on the surface.

### Brushed Finish

(No.3/No.4/No.5/No.6) This is a ground unidirectional finish obtained with 150/180/240/320 grit abrasive, which is characterized by parallel brushing lines, it is also known as Satin.

### Scotch Brite

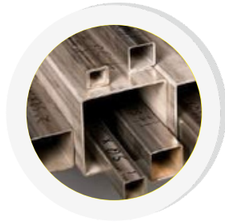
It's a semi-dull finish with uniform grain, which is obtained using finer abrasives than No.4/NO.5/NO.6. This finish has smooth, soft and exquisite grains which has a low level of reflectivity and unidirectional texture.

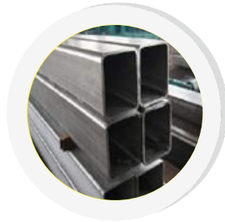
### Hairline

Seemingly endless polishing lines extend uniformly along with the length of the coil give the hairline. It's a well-defined directional finish with long-grain and fine-line.

# Stainless Steel Bar

## Stainles Steel Hollow Section



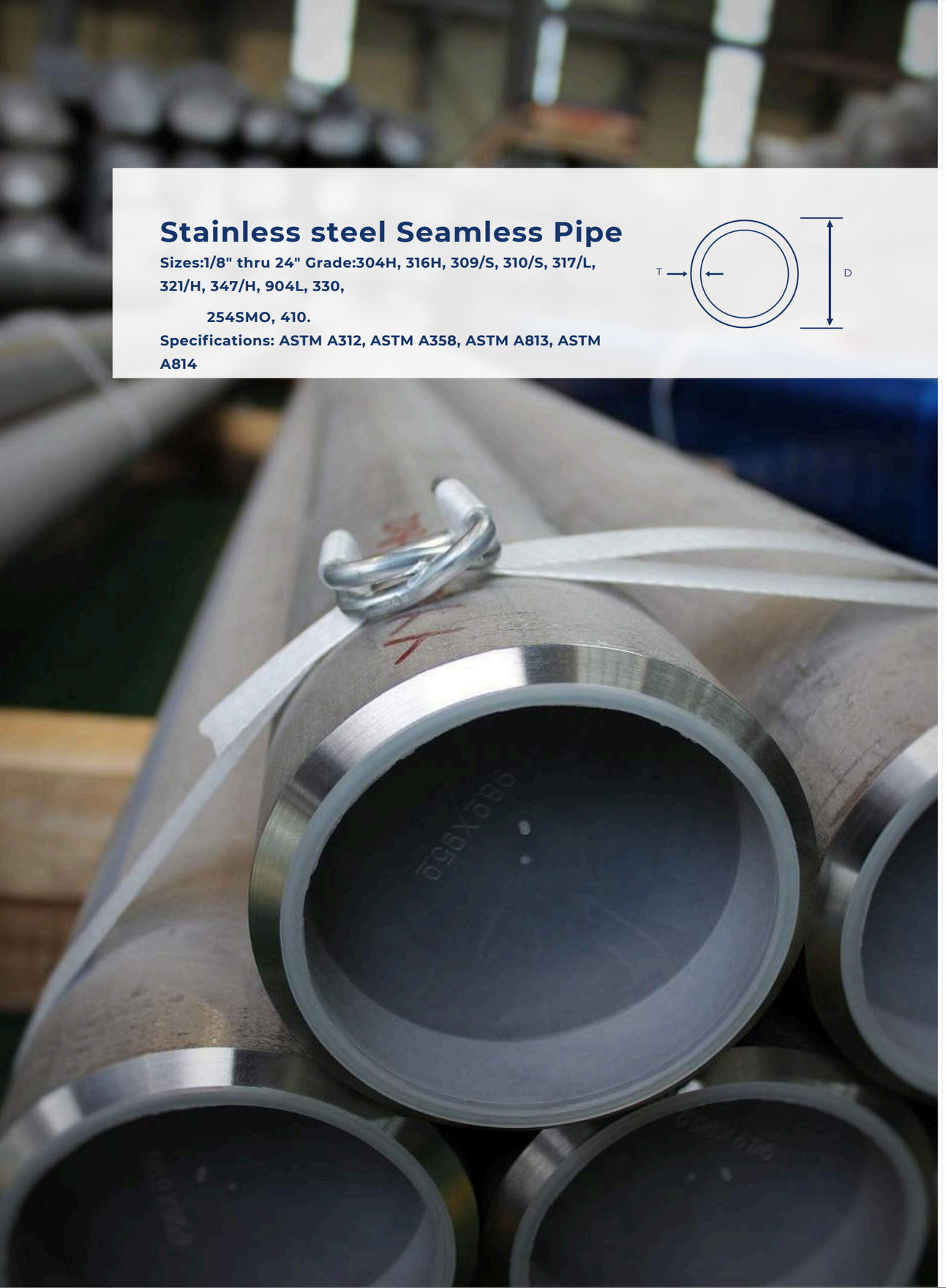
| Round Bar | Square Bar | Hex Bar | Flat Bar |
|---|---|---|---|
| 1/16" thru 16" | 1/8" thru 6" | 1/8" thru 4" | 1/8 x 3/8" thru 4" x 8" |

| Product Series | | |
|---|---|---|
| **Classificatio** | **Standard Specifications** | **Grad** |
| AUSTENITE CLASS | ASTM, DIN, JIS, GB200 | 201 |
| | | 201H |
| | | 301 |
| | | 304 |
| | | 304L |
| | | 304Cu |
| | | 316 |
| | | 316L |
| | | 316Ti |
| | | 316N |
| | | 317 |
| | | 317L |
| | | 321 |
| | | 310S |
| Ferrite Class | ASTM, DIN, JIS, GB | 430 |
| | | 430LX |
| Precipitate Hardening | ASTM, DIN, JIS, GB630 | |
| Duplex | ASTM, DIN, JIS, GB329 | |
| Other Grades | Tailor-made according to customer's requirements | |

| Description | Grade | Size | Height | Width | Thickness | Finishing | Standard Length |
|---|---|---|---|---|---|---|---|
| Stainless Square Hollow Section | 304 | 10.0mm-150.0mm | - | - | 1.2mm - 6.0mm | BA & HL | 6M |
| | 316 & 316L | 75.0mm - 300.0mm | | | | | |
| Stainless Rectangular Hollow Section | 304, 316 & 316L | - | 10.0mm - 100.0mm | 19.0mm - 200.0mm | 1.2mm - 8.0mm | - | - |

### Wall Thickness Tolerance of Stainless Steel Hollow Sections

| NPS | DN | OD(mm) | Wall Thickness(mm) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 0.6 | 1 | 1.6 | 2.5 | 4 | 6 | 8 |
| 3/4 | 20 | 26.67 | 0.07 | 0.11 | 0.18 | 0.28 | 0.45 | 0.67 | 0.89 |
| 1 | 25 | 33.4 | 0.09 | 0.14 | 0.23 | 0.36 | 0.57 | 0.84 | 1.11 |
| 11/4 | 32 | 42.16 | 0.11 | 0.18 | 0.29 | 0.45 | 0.71 | 1.06 | 1.40 |
| 11/2 | 40 | 48.26 | 0.12 | 0.21 | 0.33 | 0.51 | 0.82 | 1.21 | 1.61 |
| 2 | 50 | 60.3 | 0.16 | 0.26 | 0.41 | 0.64 | 1.02 | 1.52 | 2.01 |
| 3 | 80 | 88.9 | 0.23 | 0.38 | 0.61 | 0.95 | 1.50 | 2.24 | 2.96 |
| 4 | 100 | 114.3 | 0.29 | 0.49 | 0.78 | 1.22 | 1.93 | 2.88 | 3.80 |
| 6 | 150 | 168.28 | 0.43 | 0.72 | 1.15 | 1.79 | 2.85 | 4.24 | 5.60 |
| 8 | 200 | 219.08 | 0.56 | 0.94 | 1.50 | 2.33 | 3.71 | 5.52 | 7.29 |
| 10 | 250 | 273.05 | 0.70 | 1.17 | 1.87 | 2.91 | 4.62 | 6.87 | 19.09 |
| 12 | 300 | 323.85 | 0.83 | 1.39 | 2.22 | 3.45 | 5.48 | 8.15 | 10.78 |
| 14 | 350 | 355.6 | 0.92 | 1.52 | 2.43 | 3.79 | 6.02 | 8.95 | 11.84 |
| 16 | 400 | 406.4 | 1.05 | 1.74 | 2.78 | 4.33 | 6.88 | 10.23 | 13.53 |



# Stainless steel Seamless Pipe

**Sizes:1/8" thru 24" Grade:304H, 316H, 309/S, 310/S, 317/L, 321/H, 347/H, 904L, 330,**

**254SMO, 410.**

**Specifications: ASTM A312, ASTM A358, ASTM A813, ASTM A814**




## Stainless Steel Seamless Pipe Tolerances:

| NPS Designator | Permissible Variations in Outside Diameter | |
|---|---|---|
| | Over | Under |
| 1/8 to 1-1/2 inch | 1/64 (0.015) | 1/32 (0.031) |
| Over 1-1/2 to 4 inch | 1/32 (0.031) | 1/32 (0.031) |
| Over 4 to 8 inch | 1/16 (0.062) | 1/32 (0.031) |
| Over 8 to 18 inch | 3/23 (0.093) | 1/32 (0.031) |

## Nominal Wall Thickness:

| NPS Designator | Outside Diameter in. | Schedule 10S in. | Schedule 40S in. | Schedule 80S in. | Schedule 160 in. | Schedule XX in. |
|---|---|---|---|---|---|---|
| 1/4 | 0.540 | 0.065 | 0.088 | 0.119 | 0.188 | |
| 3/8 | 0.675 | 0.065 | 0.091 | 0.126 | 0.218 | |
| 1/2 | 0.840 | 0.083 | 0.109 | 0.147 | 0.250 | 0.294 |
| 3/4 | 1.050 | 0.083 | 0.113 | 0.154 | 0.250 | 0.308 |
| 1.0 | 1.315 | 0.109 | 0.133 | 0.179 | 0.281 | 0.358 |
| 1 1/4 | 1.660 | 0.109 | 0.140 | 0.191 | 0.343 | 0.382 |
| 1 1/2 | 1.900 | 0.109 | 0.145 | 0.200 | 0.375 | 0.400 |
| 2 | 2.375 | 0.109 | 0.154 | 0.218 | 0.438 | 0.436 |
| 2 1/2 | 2.875 | 0.120 | 0.203 | 0.276 | | 0.552 |
| 3 | 3.500 | 0.120 | 0.216 | 0.300 | 0.534 | 0.600 |
| 3 1/2 | 4.000 | 0.120 | 0.226 | 0.318 | 0.625 | 0.636 |
| 4 | 4.500 | 0.120 | 0.237 | 0.337 | 0.719 | 0.674 |
| 5 | 5.563 | 0.134 | 0.258 | 0.375 | 0.906 | 0.750 |
| 6 | 6.625 | 0.134 | 0.280 | 0.432 | 1.125 | 0.864 |
| 8 | 8.625 | 0.148 | 0.322 | 0.500 | 1.312 | 0.875 |
| 10 | 10.750 | 0.165 | 0.365 | 0.500 | 1.406 | |
| 12 | 12.750 | 0.180 | 0.375 | 0.500 | 1.594 | |
| 14 | 14.000 | 0.188 | 0.375 | 0.500 | | |
| 16 | 16.000 | 0.188 | 0.375 | 0.500 | | |

# Stainless Steel Welded Pipe

**Sizes:11/8" thru 36" Grade:304, 304L,304H, 316, 361L,316H, 309/S, 310/S, 317/L, 321/H, 347/H, 410,**

**410S, Duplex 2205, Duplex 2507**

**Specifications: ASTM A312, ASTM A358, ASTM A240, ASTM A778**

## Stainless Steel Seamless Pipe Tolerances:

| NPS Designator | Permissible Variations in Outside Diameter | |
|---|---|---|
| | Over | Under |
| 1/8 to 1-1/2 inch | 1/64 (0.015) | 1/32 (0.031) |
| Over 1-1/2 to 4 inch | 1/32 (0.031) | 1/32 (0.031) |
| Over 4 to 8 inch | 1/16 (0.062) | 1/32 (0.031) |
| Over 8 to 18 inch | 3/23 (0.093) | 1/32 (0.031) |

## Nominal Wall Thickness:

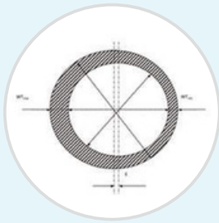
| NPS Designator | Outside Diameter in. | Schedule 10S in. | Schedule 40S in. | Schedule 80S in. | Schedule 160 in. | Schedule XX in. |
|---|---|---|---|---|---|---|
| 1/4 | 0.540 | 0.065 | 0.088 | 0.119 | .0188 | |
| 3/8 | 0.675 | 0.065 | 0.091 | 0.126 | 0.218 | |
| 1/2 | 0.840 | 0.083 | 0.109 | 0.147 | 0.250 | 0.294 |
| 3/4 | 1.050 | 0.083 | 0.113 | 0.154 | 0.250 | 0.308 |
| 1.0 | 1.315 | 0.109 | 0.133 | 0.179 | 0.281 | 0.358 |
| 1 1/4 | 1.660 | 0.109 | 0.140 | 0.191 | 0.343 | 0.382 |
| 1 1/2 | 1.900 | 0.109 | 0.145 | 0.200 | 0.375 | 0.400 |
| 2 | 2.375 | 0.109 | 0.154 | 0.218 | 0.438 | 0.436 |
| 2 1/2 | 2.875 | 0.120 | 0.203 | 0.276 | | 0.552 |
| 3 | 3.500 | 0.120 | 0.216 | 0.300 | 0.534 | 0.600 |
| 3 1/2 | 4.000 | 0.120 | 0.226 | 0.318 | 0.625 | 0.636 |
| 4 | 4.500 | 0.120 | 0.237 | 0.337 | 0.719 | 0.674 |
| 5 | 5.563 | 0.134 | 0.258 | 0.375 | 0.906 | 0.750 |
| 6 | 6.625 | 0.134 | 0.280 | 0.432 | 1.125 | 0.864 |
| 8 | 8.625 | 0.148 | 0.322 | 0.500 | 1.312 | 0.875 |
| 10 | 10.750 | 0.165 | 0.365 | 0.500 | 1.406 | |
| 12 | 12.750 | 0.180 | 0.375 | 0.500 | 1.594 | |
| 14 | 14.000 | 0.188 | 0.375 | 0.500 | | |
| 16 | 16.000 | 0.188 | 0.375 | 0.500 | | |

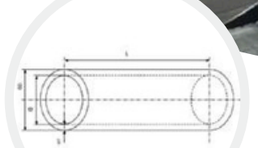
# Geometries of Stainless Steel Pipe

## Eccentricity

E is half of the difference between biggest and smallest wall thickness (WT) values in one cross section.
In terms of mm:
However, eccentricity is expressed as a percentage ofthe mean wall thicknessof this cross section
D0 is the arithmetic mean between the smallest and biggest tube diameter on any one tube circumference.
If minimum wall thickness is required variations are allowed on the plus side only!
As a percentage of the mean diameter this is: Ovality must not be confused with eccentricity. WTmax WTmin
D0 Dmax Dmin

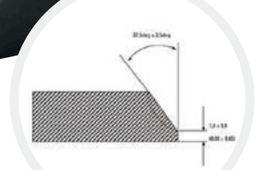
E E(mm)= WTmax - WTmin
2 E(%)= WTmax - WTmin 100
WTmax + WTmin





## Dimension

OD··· Outside Diameter
ID··· Inside Diameter
WT··· Wall Thickness
L··· Length
If minimum wall thickness is required variations areallowed on the plus side only!

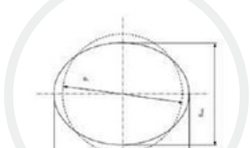


## Buttwelding ends

ANSI / ASME B16.25-2007
Fig. 4 Weld Bevel Details for GTAW Root Pass
[WT > 3mm (0,12 in.) to 10mm (0,38 in.), Inclusive]
GENERAL NOTES:
a) This detail applies for gas tungsten arc welding(GTAW) of the rootpass wherenominal thickness is over 3mm
b) Linear dimensions are in millimeters with inchvaluesin parentheses

## Straightness

Standard pipes and tubes are supplied straightened to the eye:for special applications the permissible deviation from the straight line may be agreedbetween purchaser and tube manufacturer; the maximumpermissible deviation from the straight line related to the length of measurement L is to be indicated, e.g. 1mm/1000mm.



## Mean diameter outside or inside

D0 is the arithmetic mean between the smallest and biggest tube diameter on any one tube circumference. If minimum wall thickness is required variations are allowed on the plus side only!

# Stainless Steel Flange

## Stainless Steel Weld Neck Flanges

**Applications**

◆Chemical Industry
◆Petrochemical Industry

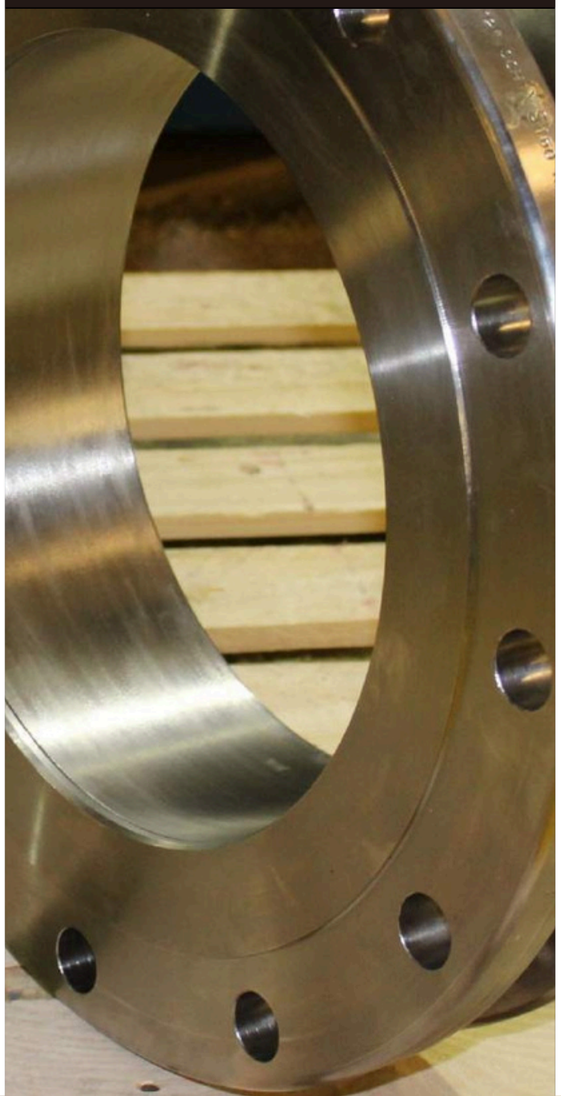
**Available Grades :** F 304, 304L, 304H, 316, 316L, 316Ti, 310, 310S, 321, 321H, 317, 347, 347H, 904L.
**Available Stainless Steel :** ASTM A 182, A 240
**Available Size :** 1/8" NB TO 48"NB. **Available Class :** 150#, 300#, 600#, 900#, 1500# &2500 #.

## Stainless Steel Slip On Flanges

**Applications**

◆Cement Industry
◆Petrochemical Industry
◆Ship Building Industry
◆Sugar Mills
◆Chemical Industry

**Available Grades :** F 304, 304L, 304H, 316, 316L,316Ti, 310, 310S, 321, 321H, 317, 347, 347H, 904L
**Available Sizes :** 1/8" NB TO 48"NB. **Available Stainless Steel Standards :** ASTM A 182, A 240 **Available Class :** 150#, 300#, 600#, 900#, 1500# & 2500 #.



## Stainless Steel Blind Flanges

**Applications**

◆ Used to provide positive closer on the ends of pipes, valves or equipment nozzles

**Available Grades :** F 304, 304L, 304H, 316, 316L, 316Ti, 310, 310S, 321, 321H, 317, 347, 347H, 904L.
**Austenitic Stainless Steel Standards :** ASTM A 182, A 240 **Available Sizes :** 1/8" NB TO 48"NB. **Available Class :** 150#, 300#, 600#, 900#, 1500# & 2500 #

## Stainless Steel Lap Joint Flanges

**Applications**

◆Steel plants
◆Heavy Pumps
◆Sugar mills
◆Distilleries
◆Cement Industry
◆Construction Industry
◆Petrochemical Industry

**Available Grades :** F 304, 304L, 304H, 316, 316L, 316Ti, 310, 310S, 321, 321H, 317, 347, 347H, 904L.
**Austenitic Stainless Steel Standards :** ASTM A 182, A 240 **Available Sizes :** 1/8" NB TO 48"NB. **Available Class :** 150#, 300#, 600#, 900#, 1500# & 2500 #.

# Stainless Steel Flange & Elbow

## Stainless Steel Socket Weld Flanges

**Applications**

◆Chemical Industry
◆Petrochemical Industry

**Available Grades :** F 304, 304L, 304H, 316, 316L, 316Ti, 310, 310S, 321, 321H, 317, 347, 347H, 904L.
**Available Stainless Steel :** ASTM A 182, A 240
**Available Size :** 1/8" NB TO 48"NB. **Available Class :** 150#, 300#, 600#, 900#, 1500# & 2500 #.

## Stainless Steel Threaded Flanges

**Applications**

◆Water Systems
◆Gas Plants
◆Ship Building Industries
◆Power Plants
◆Offshore Industry

**Available Grades :** F 304, 304L, 304H, 316, 316L, 316Ti, 310, 310S, 321, 321H, 317,347, 347H, 904L.
**Available Stainless Steel :** ASTM A 182, A 240
**Available Size :** 1/8" NB TO 48"NB. **Available Class :** 150#, 300#, 600#, 900#, 1500# & 2500 #.

## Stainless Steel Forged Flanges

**Applications**

◆Ship building industry
◆Valve industry
◆Petrochemical and gas industry
◆Power generation industry
◆Dairy industry

**Technical specifications**
**Standards** ASTM / ASME A/SA 182 & A240
**Grade :** F 304, 304L, 304H, 309S, 309H, 310S, 310H, 316, 316TI, 316H, 316L, 316LN, 317, 317L, 321, 321H, 347, 347H, 904L
**Size range :**1/2" TO 36" (15 mm to 900 mm) **Pressure class :**75 LBS, 150 LBS, 300 LBS, 400 LBS, 600 LBS and 900 LBS

## Stainless Steel Elbows

**Types:** 45°long or short radius elbow, 90°long or short radius elbow,180°longor short radius elbow

**Applications**

◆Petrochemical industry
◆Oil field
◆Chemical industry
◆Water supply
◆Food & beverage industry
◆Pharmaceutical industry

**Technical specifications**
**Size :** 1/2"NB TO 48"NB IN
**Schedule :** SCH20, SCH30, SCH40, STD, SCH80, XS, SCH60, SCH80, SCH120, SCH140, SCH160, XXS

# Stainless Steel Tee & Reducer

## Stainless Steel Tee

**Types:** Equal tee, reducing tee, barred tee, lateral tee, unequal tee.

**Applications**

- ◆Chemical industry
- ◆Water supply
- ◆Petrochemical industry
- ◆Food & beverage industry
- ◆Pharmaceutical industry
- ◆Oil field
- ◆Power plants

**Technical specifications**
**Sizes available**1/2" NB TO 48" NB
**Specification:** ASTM A403 WP Gr.304,304H,309,310,316,316L,321,347,904L

## Stainless Steel Reducer

**Types:** Eccentric reducer, concentric reducer

**Applications**

- ◆Chemical industry
- ◆Water supply
- ◆Petrochemical industry
- ◆Food & beverage industry
- ◆Pharmaceutical industry
- ◆Oil field
- ◆Power plants

**Technical specifications**
**Sizes available :** 1/2" NB TO 48" NB
**Specification:** ASTM A403 WP Gr.304,304H,309,310,316,316L,321,347,904L

# Projects

- Heat Exchangers, Condensers & Pressure Vessels
- Chemical and Petrochemical
- Energy and Power Generation
- Automotive
- Aerospace Industry
- Shipping Industry & Naval Engineering
- Centralize Heating System
- Mechanical and Plant Engineering
- Liquefaction Projects

**Industry:** Piling Engineering in Singapore
**Product:** TP316 Stainless Welded Pipe

**Industry:** SEACOR Marine Project in Mexico
**Product:** TP321H Tee & Reducer

**Industry:** Industrial Exhaust Ducts in Romania
**Product:** 45°Elbow & Tee

**Industry:** Oil Plant in Kuwait
**Product:** TP347H Stainless Welded Pipe

**Industry:** Geothermal Exploration in Swizerland
**Product:** TP410 Stainless Seamless Pipe


**Industry:** Smart Shipyard Project in Myanmar
**Product:** Socket Weld Flange

**Industry:** Energy Project in Nigeria
**Product:** S32304 Duplex Stainless Pipe

**Industry:** Coastal Chemical in Chile
**Product:** 409 Ferritic Stainless Steel Tube

**Industry:** Water Supply System in Denmark
**Product:** TP904L Tee & Flange

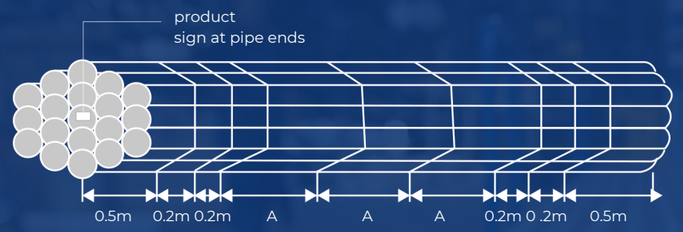
**Industry:** Gas Exploration in Columbia
**Product:** TP304L Stainless welded pipe

**Industry:** Oil Refinery in Angola
**Product:** 202 Stainless Steel Pipe & Flange

**Industry:** Petrochemical Project in United Arab Emirates
**Product:** 301 Stainless Steel Seamless Pipe & Elbow

## Bundled Package

On bundle of steel tube shall be the same in batch number, steel grade and specification.the rest of tubing less than one bundle should be tied into small bundles. The weight of each bundle should be less than 50kg.The max weight cannot exceed  80kg of the bundle If there are special requirements.




steel strips bundling for fixed pipes(>6 meters or=6 meters)

| | | |
|---|---|---|
| When the length of the steel tube is greater than or equal to 6m, with at least 8 strapping bands for eachbundle, divided into 3 groups and 3-2-3. | When the length of the steel tube is less than 6m, and each bundle is tied at least 5 knots and divided into 3 groups, which are 2-1-2. | When the length of the tube is greater than or equal to 3m, and each bundle is tied with at least 3 bands, divided into 3 groups, 1-1-1 showed below. |

## Wooden Box Package

The wooden box is suitable for cold rolling or cold drawing seamless steel tube, polished hot rolled stainless steel tube.

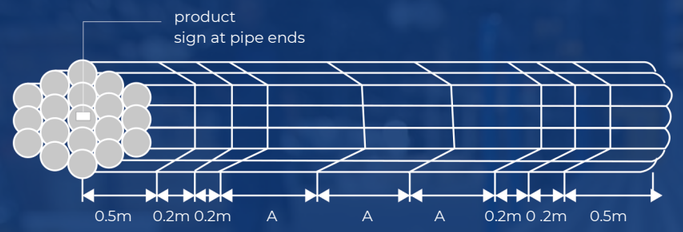
When the outer diameter of steel pipe is greater than or equal 10mm, the maximum weight of the container should be 50kg.

When the outer diameter of steel pipe is less than or equal 10mm, the maximum weight of the container should be 30kg.

| Sr. No. | Type of Packing |
|---|---|
| 1 | Hessian / PVC Cloth Bundles with PVC Box Strap or Hexagonal Bundles |
| 2 | Wooden Crate |
| 3 | Wooden Box made of treated wood or Plywood sheet |
| 4 | Bare Tubes Bundles |
| 5 | Tubes With PVC Sleeve and packed in Wooden Boxes |
| 6 | Tubes bundles with PVC Film and Plywood Sheets on the bundles |

## *Bundled Package*

On bundle of steel tube shall be the same in batch number, steel grade and specification.the rest of tubing less than one bundle should be tied into small bundles. The weight of each bundle should be less than 50kg.The max weight cannot exceed  80kg of the bundle If there are special requirements.

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